L Number	Hits	Search Text	DB	Time stamp
-	2	(("4990997") or ("5739579")).PN.	USPAT	2001/12/27 11:43
-	3927	((438/637) or (438/653) or (438/656) or (438/687) or	USPAT;	2003/06/25 10:29
		(438/688) or (438/720)).CCLS.	US-PGPUB;	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EPO; JPO	
-	1044	((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT	2003/06/25 10:29
		("438/688") or ("438/720")).CCLS.) and (barrier adj layer)		000010110======
-	442	(((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT	2002/01/07 07:58
		("438/688") or ("438/720")).CCLS.) and (barrier adj layer))		
	285	and oxygen ((((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT	2002/01/04 14:48
-	200	(((((438/688") or ("438/720")).CCLS.) and (barrier adj layer))	USPAT	2002/01/04 14.46
		and oxygen) and cvd		
_	343	((((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT	2002/01/04 14:49
	0.0	("438/688") or ("438/720")).CCLS.) and (barrier adj layer))	001711	2002/01/01 11:10
		and oxygen) and (sputtering or pvd)		
-	236	(((((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT	2002/01/04 14:54
		("438/688") or ("438/720")).CCLS.) and (barrier adj layer))		
		and oxygen) and cvd) and (((((("438/637") or ("438/653") or		
		("438/656") or ("438/687") or ("438/688") or		
		("438/720")).CCLS.) and (barrier adj layer)) and oxygen) and		
1		(sputtering or pvd))		
-	152	((((((("438/637") or ("438/653") or ("438/656") or ("438/687")	USPAT	2002/01/04 14:54
j		or ("438/688") or ("438/720")). CCLS.) and (barrier adj layer))		
		and oxygen) and cvd) and ((((("438/637") or ("438/653") or		
		("438/656") or ("438/687") or ("438/688") or		
		("438/720")).CCLS.) and (barrier adj layer)) and oxygen) and		
_	138	(sputtering or pvd))) and copper (((((((("438/637") or ("438/653") or ("438/656") or ("438/687")	USPAT .	2002/01/07 07:55
-	130	or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer))	USPAI .	2002/01/07 07.55
		and oxygen) and cvd) and ((((("438/637") or ("438/653") or		
		("438/656") or ("438/687") or ("438/688") or	ļ	
		("438/720")).CCLS.) and (barrier adj layer)) and oxygen) and		
		(sputtering or pvd))) and copper) and @ad<=20000208		
-	2	(((((((("438/637") or ("438/653") or ("438/656") or ("438/687")	USPAT	2002/01/04 14:59
		or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer))		
		and oxygen) and cvd) and ((((("438/637") or ("438/653") or		
		("438/656") or ("438/687") or ("438/688") or	:	
		("438/720")).CCLS.) and (barrier adj layer)) and oxygen) and	,	
		(sputtering or pvd))) and copper) and @ad<=20000208) and		
	_	(promoting adj layer)		0000004004
-	7	((((((((((((((((((((((((((((((((((((((USPAT	2002/01/04 15:00
		or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer))		
		and oxygen) and cvd) and ((((("438/637") or ("438/653") or ("438/656") or ("438/687") or ("438/688") or		
		("438/720")).CCLS.) and (barrier adj layer)) and oxygen) and		
		(sputtering or pvd))) and copper) and @ad<=20000208) and		
		(metal with promoting)	1	
-	7	(((((((("(438/637") or ("438/653") or ("438/656") or ("438/687")	USPAT	2002/01/04 15:01
		or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer))		
		and oxygen) and cvd) and ((((("438/637") or ("438/653") or		
'		("438/656") or ("438/687") or ("438/688") or		
		("438/720")).CCLS.) and (barrier adj layer)) and oxygen) and		
[(sputtering or pvd))) and copper) and @ad<=20000208) and		
		(promoting with layer)		
-	2586	((438/637) or (438/653) or (438/656) or (438/687) or	USPAT	2002/01/07 07:57
	604050	(438/688) or (438/720)).CCLS.	LICDAT	0000/04/07 07 57
-	684058	((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT	2002/01/07 07:57
_	1044	("438/688") or ("438/720")).CCLS.) and barrier layer ((("438/637") or ("438/653") or ("438/656") or ("438/687") or	LICDAT	2002/04/07 07:57
-	1044	(((438/687) or (438/720)).CCLS.) and (barrier adj layer)	USPAT .	2002/01/07 07:57
<u> </u>	442	(((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT;	2002/01/07 07:59
	772	(((438/688") or ("438/720")).CCLS.) and (barrier adj layer))	US-PGPUB	2002/01/01 01:39
		and oxygen		
		1	L	

-	269	((((("438/637") or ("438/653") or ("438/656") or ("438/687") or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer))	USPAT; US-PGPUB	2002

				
-	269	((((("438/637") or ("438/653") or ("438/656") or ("438/687") or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer)) and oxygen) and copper	USPAT; US-PGPUB	2002/01/07 07:59
-	10	(((((("438/637") or ("438/653") or ("438/656") or ("438/687") or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer))	USPAT; US-PGPUB	2002/01/07 08:06
_	31	and oxygen) and copper) and (diffusion with stop) ("3844831" "4242698" "4367119" "4386116" "4451326"	USPAT	2002/01/07 08:04
		"4600624" "4789648" "4792534" "4808552" "4944836" "4948755" "4956313" "4966870" "4992135" "4999318"		
-		"5000818" "5010039" "5055908" "5117276" "5122859" "5143820" "5209817" "5219787" "5244837" "5277985" "5300813" "5308796" "5310602" "5340370" "5371047"		
-	0	"5612254").PN. (((((("438/637") or ("438/653") or ("438/656") or ("438/687") or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer))	USPAT; US-PGPUB	2002/01/07 08:09
-	10	and oxygen) and copper) and (elongation adj time) (((((("438/637") or ("438/653") or ("438/656") or ("438/688") or ("438/720")).CCLS.) and (barrier adj layer))	USPAT; US-PGPUB	2002/01/07 08:32
-	7	and oxygen) and copper) and (Ti-Si-N) ("5770520" "5824599" "5851367" "5913144" "5918150"	USPAT	2002/01/07 08:12
-	7	"5976928" "6130161").PN. ("5770520" "5824599" "5851367" "5913144" "5918150" "5976928" "6130161").PN.	USPAT	2002/01/07 08:31
-	1	("5913144").PN.	USPAT	2002/01/07 08:35
-	24302	((438/???).ccls) and ((257/???).ccls)	USPAT; US-PGPUB;	2002/01/07 08:37
			EPO; JPO; DERWENT; IBM_TDB	
-	5813	(((438/???).ccls) and ((257/???).ccls)) and ((ti si n) and (oxygen o osub2))	USPAT; US-PGPUB;	2002/01/07 10:50
		(**)3**********************************	EPO; JPO; DERWENT; IBM_TDB	
-	1385	((((438/???).ccls) and ((257/???).ccls)) and ((ti si n) and (oxygen o osub2))) and (cu copper)	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/01/07 11:34
-	99	((((438/???).ccls) and ((257/???).ccls)) and ((ti si n) and	IBM_TDB USPAT	2002/01/07 08:41
-	7	(oxygen o osub2))) and (diffusion with layer with (cu copper)) ("5770520" "5824599" "5851367" "5913144" "5918150"	USPAT	2002/01/07 09:32
-	1	"5976928" "6130161").PN. ("5652464").PN.	USPAT	2002/01/07 10:52
-	14	("4676866" "4690730" "4957590" "4976839" "5070036" "5162262" "5175126" "5232871" "5236869" "5240880" "5371042" "5466629" "5514908" "5552341").PN.	USPAT	2002/01/07 10:52
-	3	("4674176" "4829363" "4897709").PN.	USPAT	2002/01/07 11:17
-	10	(((((438/???).ccls) and ((257/???).ccls)) and ((ti si n) and (oxygen o osub2))) and (cu copper)) and (oxygenation or (oxygen adj stuffing))	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/01/07 11:36
-	4	(("4970568") or ("5989988") or ("6090702") or ("5736192")).PN.	IBM_TDB USPAT	2002/01/07 14:20
-	2	("4990997" "5070036").PN.	USPAT	2002/01/07 14:07
-	2	((opening or trench) with (insulating or insulator)) and (oxygen with layer with concentration)	EPO; JPO	2002/01/07 14:23
-	2	(((opening or trench) with (insulating or insulator)) and (oxygen with layer with concentration)) and (concentration	EPO; JPO	2002/01/08 07:16
-	1	with (low or high)) ("4990997").PN.	USPAT	2002/01/08 09:01
-	22	4990997.URPN.	USPAT	2002/01/08 07:16

			Lucate	
-	22	("3637320" "3807008" "4035541" "4497874" "4830886" "4960732" "4990997" "5001531" "5049975" "5087593" "5132756" "5139825" "5178911" "5192589" "5246881"	USPAT	2002/01/08 07:26
		"5384289" "5496762" "5536947" "5571572" "5723382" "5893758" "6081034").PN.		
-	2	1 11	USPAT	2002/01/08 09:01
-	1426	((438/627) or (438/628) or (438/643) or (438/644)).CCLS.	USPAT;	2002/11/04 11:10
			US-PGPUB; EPO; JPO	!
-	638	(((438/627) or (438/628) or (438/643) or (438/644)).CCLS.) and @ad<=19950705	USPAT; US-PGPUB; EPO; JPO;	2002/11/06 07:31
			DERWENT;	
_	117	((((438/627) or (438/628) or (438/643) or (438/644)).CCLS.)	IBM_TDB USPAT;	2002/11/04 11:12
		and @ad<=19950705) and oxygen	US-PGPUB; EPO; JPO; DERWENT;	2002/1/104 11.12
			IBM_TDB	
-	49	(((((438/627) or (438/628) or (438/643) or (438/644)).CCLS.) and @ad<=19950705) and oxygen) and ((barrier or seed) with (oxygen oxide))	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/11/04 11:13
-	5	("4931410" "5124780" "5444018" "5462895"	IBM_TDB USPAT	2002/11/04 13:00
_	1326	"5470789").PN. ((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT	2002/11/06 07:31
_	639	("438/688") or ("438/720")).CCLS.) and (barrier adj layer) (((438/627) or (438/628) or (438/643) or (438/644)).CCLS.)	USPAT;	2002/11/06 07:31
		and @ad<=19950705	US-PGPUB; EPO; JPO; DERWENT; IBM TDB	
-	92	((((438/627) or (438/628) or (438/643) or (438/644)).CCLS.) and @ad<=19950705) and ((tungsten tantalum) with nitride)	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/11/06 08:48
-	23	((((438/627) or (438/628) or (438/643) or (438/644)).CCLS.) and @ad<=19950705) and ((tungsten tantalum) adj nitride)	IBM_TDB USPAT; US-PGPUB;	2002/11/06 07:35
			EPO; JPO; DERWENT; IBM_TDB	
_	2	((((438/627) or (438/628) or (438/643) or (438/644)).CCLS.) and @ad<=19950705) and ((aluminum adj oxide) "al.sub.2o.sub.3") with barrier	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/11/06 07:55
-	20	((((438/627) or (438/628) or (438/643) or (438/644)).CCLS.) and @ad<=19950705) and ((aluminum adj oxide) "al.sub.2o.sub.3")	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/11/06 08:00
			DERWENT; IBM_TDB	
-	168	(438/\$.ccls.) and (((aluminum adj oxide) "al.sub.2o.sub.3") with barrier)	USPAT; US-PGPUB; EPO; JPO;	2002/11/06 08:01
	30	((420/0 asla) and (((a), unsite up a 1/2 a 1/2) Halland Oc. 1 000	DERWENT; IBM_TDB	0000/44/20 00 01
-	39	((438/\$.ccls.) and (((aluminum adj oxide) "al.sub.2o.sub.3") with barrier)) and @ad<=19950705	USPAT; US-PGPUB; EPO; JPO;	2002/11/06 08:01
			DERWENT; IBM_TDB	

-	17	(438/\$.ccls.) and ((tantalum adj nitride) with barrier) and	USPAT;	2002/11/06 08:49
		@ad<=19950705	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	8	(("5612254") or ("4910169") or ("5552341") or	USPAT;	2002/11/06 09:27
		("5070036")).PN.	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	160	frimming with any sites	IBM_TDB	00004440042.00
-	169	fringing with capacitor	USPAT;	2002/11/06 13:28
			US-PGPUB; EPO; JPO;	
			DERWENT;	
	Ì		IBM TDB	
_	5335	((438/637) or (438/653) or (438/656) or (438/687) or	USPAT;	2003/06/25 10:29
		(438/688) or (438/720)).CCLS.	US-PGPUB:	
		, , , , , , , , , , , , , , , , , , , ,	EPO; JPO	
-	1546	((("438/637") or ("438/653") or ("438/656") or ("438/687") or	USPAT	2003/06/25 10:30
		("438/688") or ("438/720")).CCLS.) and (barrier adj layer)		
-	26	[((() () () () () () (USPAT;	2003/06/25 10:33
		(438/688) or (438/720)).CCLS.) and (oxidized) with (titanium	US-PGPUB	
	_	adj nitride)		
-	5	(((438/637) or (438/653) or (438/656) or (438/687) or	USPAT;	2003/06/25 10:34
		(438/688) or (438/720)).CCLS.) and cvd with (titanium adj	US-PGPUB	
		nitride) with (oxidized (oxygen with concentration) oxidizing)		1